CONTENTS

JANUARY. No. 1

Utilization of Buttermilk in the Form of Condensed and Dried Buttermilk. O. F. Hunziker 1
Class Leaders in Agricultural College Herds. H. P. Davis and R. A. Braun 13
The Mineral Requirements of Dairy Cows. Present Status of the Question. Edward B. Meigs 46
Studies in the Growth and Nutrition of Dairy Cows. V. Milk as the Sole Ration for Calves. Andrew C. McCandlish 54
Proceedings of the Annual Meeting of the American Dairy Science Association 67
The Relation Between Skin Color and Fat Production in Dairy Cows. LeRoy S. Palmer 83
Dairy Notes 85

MARCH. No. 2

Dairying in Vermont in the '70's and '80's. J. L. Hills 87
The Alcohol Test as a Means of Detecting Abnormal Milk. A. C. Weimar 95
Studies in Milk Secretion. X. Relation Between the Milk Yield of One Lactation and the Milk Yield of a Subsequent Lactation in Guernsey Advanced Registry Cattle. John W. Gowen 102
Acidity of Butter and Its By-Products. F. W. Bouska 122
A Ropy Milk Organism Isolated from the Finnish "Piima" or "Fiili." Harold Macy 127
V. Sodium Hypochlorite. Some Studies on the Bactericidal Action of Sodium Hypochlorite in Cow's Milk. Harper F. Zoller and Sylvia M. Eaton 131
Thionin. H. J. Conn 135
The Colostrum Problem and Its Solution. Arthur C. Ragsdale and Samuel Brody 137
A Study of Determining Solids-Not-Fat in Cow's Milk. Benjamin Masurovsky 145
Noteworthy Events in the World's Dairy Industry, 1922. T. R. Pirtle 150
Review of Foreign Dairy Literature. R. C. Fisher 154

MAY. No. 3

Extension Activities and Their Relation to the College and Experiment Station. A. A. Borland 163

A Study of the Factors That Influence the Coagulation of Milk in the Alcohol Test. H. H. Sommer and T. H. Binney 176
Seasonal Variations in Milk and Fat Production. C. W. Turner 198
A Study of the Use of Superheated and Unsuperheated Plain Condensed Bulk Skim Milk in the Manufacture of Ice Cream. P. H. Tracy 205
The Nutritive Value of the Proteins of Coconut Meal, Soy Beans, Rice Bran and Corn. H. H. Mitchell and Valente Villegas 222
Effect of Autoclaving on Vitamin Content in Milk. E. J. Slanetz 237
The Optimum Quantity of Skimmilk for Calf Feeding. T. E. Woodward 243
An Experiment Manger. Andrew C. McCandlish and Fordyce Ely 245
Book Review 247
Necrology. M. E. Jaffa 249

JULY. No. 4

The Effects of Underfeeding on Milk Secretion. Arthur C. Ragsdale and Charles W. Turner 251
Copper in Dairy Products and Its Solution in Milk under Various Conditions. F. E. Rice and J. Miscall 261
Some Factors Influencing Quality in Gelatin and the Use of the Fermentation Test as an Index of Bacterial Contamination. E. H. Parfitt 278
The Bacterial Content of Some Kansas Ice Cream. A. C. Fay 283
Factors Influencing Two-day Official Butterfat Tests of Cows. C. Elmer Wylie 292
A Screen Used in Photographing Animals. C. C. Hayden 299
The Production of Volatile Fatty Acids ad Carbon Dioxid by Propionic Acid Bacteria with Special Reference to their Action in Cheese. Roscoe H. Shaw and James M. Sherman 303
III. Sodium Hypochlorite. The Rate of Decomposition of Sodium Hypochlorite in Cow's Milk. Harper F. Zoller 310
Some Determinations on the Soluble Nitrogen Compounds of Cream and Butter. L. W. Ferris 320
Studies in Milk Secretion. XI. Relation Between the Butterfat Percentage of One Lactation and the Butterfat Percentage of a Subsequent Lactation in Guernsey Advanced Registry Cattle. John W. Gowen 330
Studies in the Growth and Nutrition of Dairy Calves. VI. The Addition of Hay and Grain to a Milk Ration for Calves. Andrew C. McCandlish 347
Dairy Notes 373

SEPTEMBER. No. 5

The World's Dairy Congress. H. E. Van Norman 377
A Comparison of Early, Medium and Late-maturing Varieties of Silage Corn for Milk Production. Report of Second Feeding Trial. Wm. L. Slate, Jr., Benjamin A. Brown, George C. White and LeRoy M. Chapman 382
The Determination of Fat in Buttermilk. P. H. Tracy and O. R. Overman 393
Comparison of Methods of Reading Cream Tests. F. J. Doan, J. N. Fields and C. W. England 406

The Relation of the Oxidizability Value and the Amino and Ammonia Nitrogen Content to the Quality of Cream and Butter. L. W. Ferris..... 412
A Study of the Action of Certain Bacteria, Yeasts and Molds on the Keeping Quality of Butter in Cold Storage. M. Grimes..... 427
A Study of the Relation of the Composition of the Mix to the Quality of the Finished Ice Cream. A. S. Ambrose..... 446
A Greenish-Black Discoloration of Chocolate Ice Cream. A. C. Dahlberg. 455
Normal Growth of the Jersey Cow. Charles W. Turner, Arthur C. Ragsdale and Samuel Brody..... 461
Factors Influencing Percentage of Fat in Milk. T. E. Woodward..... 466
The Bacterial Content of Cow Feces. P. W. Allen..... 479
A System of Rearing Dairy Calves with Limited Use of Milk. L. A. Maynard and L. C. Norris..... 483
Studies in the Growth and Nutrition of Dairy Calves. VII. The Use of the Self-feeder with Young Dairy Calves. Andrew C. McCandlish..... 500

NOVEMBER. No. 6

A Test for Determining the Character of the Curd from Cow's Milk and Its Application to the Study of Curd Variance as an Index to the Food Value of Milk for Infants. Reuben L. Hill..... 509
How the Advance of the Period of Lactation Affects the Milk Flow. Charles W. Turner, Arthur C. Ragsdale, Samuel Brody..... 527
Sweetened Condensed Milk. I. Bacterial Thickening. Frank E. Rice and Paul A. Downs..... 532
A Comparison of the Babcock and the Roese-Gottlieb (Mojonnier) Methods for Determination of Butterfat in Milk. G. A. Phillips..... 549
The Relationships of Concentration and Time to the Temperature of Coagulation of Evaporated Skim and Whole Milk. George E. Holm, E. F. Deysher, and F. R. Evans..... 556
The Value of Milk Inspection for a Small City. E. H. Parfitt..... 569
Studies in the Growth and Nutrition of Dairy Calves. VIII. Raising Dairy Heifers by Means of the Self-feeder. Andrew C. McCandlish..... 572
A Study in Herd Expansion. J. J. Hooper and N. Lawrence..... 588
The Acidity Phase of the Ice Cream Mix. Benjamin I. Masurovsky..... 591
The Problem of Transporting Milk in a Hot Condition. S. Henry Ayers and Wm. T. Johnson, Jr..... 608
The Wide Distribution of Ropy Milk Organisms in City Milk Supplies. Archibald R. Ward..... 616
Index to Volume VI..... 625